

# MISSOURI DEPARTMENT OF CONSERVATION

Fish and Wildlife Research Center • 1110 College Avenue

Columbia, Missouri 65201 • Phone 314/449-3761

JERRY J. PRESLEY, Director

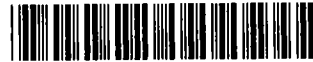
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SEP 15 1988

September 13, 1988

SUPERFUND BRANCH

Mr. Robert Morby  
Region VII  
U.S. Environmental Protection Agency  
726 Minnesota Avenue  
Kansas City, Kansas 66101



40032221  
SUPERFUND RECORDS

Dear Mr. Morby:

On August 1 and 2, 1988 white suckers (*Catostomus commersoni*) were collected from five locations on the upper Spring River for TCDD analysis. This is in compliance with the fifth year of a five-year requirement outlined in the Verona Fish and Sediment Sampling Plan. The fish were collected by electroshocking. A representative from Syntex was present during sampling. The five sites corresponded to those identified in the "Verona Plant, Fish and Sediment Plan" with the exception of Site 4 which was moved .5 miles upstream. These sites were identical to those sampled in August of 1984, 1985, 1986, and 1987. The sampling locations are identified in Attachment A. The size and weight of each fish and the identifying EPA code is listed in Attachment B. The recommended minimum numbers of fish were met at all locations.

The fish were taken to our facility at Columbia, Missouri, thawed and prepared accordingly. The fish at sites 2, 3, 4 and 5 were weighed and measured and sequentially placed into two equal size groups designated as Groups A and B. The right skinless fillets of the fish in Groups A and B were removed and placed in separate polyethylene bags. These two groups are to be analyzed separately. The remainder of Group B fish (the entire fish minus the right fillet) was placed in a third bag for analysis. A fourth whole body estimate will be calculated. The fish at Site 1 were prepared in a similar manner except they were sorted into three equal size groups. Groups A and B were prepared in a manner identical to sites 2-5 and the fish in Group C were simply left whole and refrozen. Thus a total of 16 composites were prepared which will generate 21 measurements (five calculated).

COMMISSION

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Chillicothe

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Earth City

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RICHARD REED  
East Prairie

Mr. Robert Morby

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September 13, 1988

The frozen fish samples were delivered to the Environmental Trace Substances Research Laboratory in Columbia, thoroughly homogenized, 100-gram samples removed, refrozen, and delivered to Dr. Lewis Throop, Syntex Research, Palo Alto, California by Federal-Express on September 13.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Crunkilton". The signature is fluid and cursive, with the first name "Ron" being more distinct than the last name "Crunkilton".

Ron Crunkilton, Biologist  
Water Quality Research

RC:aa

Enclosure

cc: Dr. Lewis Throop

Attachment B

Site 1 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
296	.295	T19C4-001
255	.165	
265	.189	
269	.216	

Site 1 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
255	.165	T19C4-002 (fillets) and T19C4-003 (remainder) and T19C4-004* (to be calculated)
263	.190	
272	.215	
324	.299	

Site 1 - Group C - Whole Fish

Total Length (mm)	Wt (kg)	EPA Number
302	.281	T19C4-005
300	.285	
252	.174	
260	.182	

Site 2 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
302	.289	T19C4-006
270	.215	
366	.516	
248	.154	

\* Total weight of fillets for Group 1B fish is .116 kg for calculation purposes.

Site 2 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
348	.417	T19C4-007 (fillets)
340	.406	and
277	.208	T19C4-008 (remainder)
251	.163	and
		T19C4-009* (to be calculated)

Site 3 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
251	.179	T19C4-010
255	.181	
300	.272	
226	.113	

Site 3 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
293	.271	T19C4-011 (fillets)
281	.215	and
238	.134	T19C4-012 (remainder)
236	.138	and
		I09C4-013* (to be calculated)

Site 4 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
239	.141	T19C4-014
202	.171	
225	.116	
260	.179	

\* Total weight of fillets for Group 2B fish is .141 kg for calculation purposes.

\* Total weight of fillets for Group 3 B fish is .105 kg for calculation purposes.

Site 4 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
237	.123	T19C4-015 (fillets)
239	.142	and
224	.118	T19C4-016 (remainder)
271	.208	T19C4-017* (to be calculated)

Site 5 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
260	.213	T19C4-018
402	.772	
300	.265	
270	.233	

Site 5 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
315	.328	T19C4-019 (fillets)
310	.339	and
266	.219	T19C4-020 (remainder)
270	.212	T19C4-021* (to be calculated)

\* Total weight of fillets for Group 4B fish is .080 kg for calculation purposes.

\* Total weight of fillets for Group 5B fish is .156 kg for calculation purposes.

